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1/2 Figure 1 1. Calculate midsagittal plane 2. Calculate outliers-to-inliers ratio r Signal potential 2.1 r > Trexistence of pathology 3. Reformat data, if necessary 4. For each image 4.1 Extract head 4.2 Crop image to head Calculate histogram for each hemisphere 4.4 Smooth histograms Calculate additional features: mean, moments, cross-correlation, mutual information 4.6 Calculate histograms difference supplemented by other features h N, Data are normal h > Th 4.6.1 Signal existence of pathology 5. Calculate pathology ratio 6. Tumor localization

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2/2 **Figure 2**

